	north side			1	6.75		2.70	18.23			
	First Floor east side			1	6.70		3.50	23.45			
	south side			1	3.85		3.50	13.48			
				1	6.45		2.70	17.42			
	west side			1	6.95		3.50	24.33			
	north side			1	6.75		3.50	23.63			
	Second Floor east side			1	6.70		7.20	48.24			
	south side			1	3.85		7.20	27.72			
				1	6.45		5.50	35.48			
	west side			1	6.95		5.50	38.23			
	north side			1	6.75		5.50	37.13			
				2	1.30		5.50	14.30			
	head room			1	6.95		3.30	22.94			
	deductions open			-0.5	2.10		2.10	-2.21			
	W		0.5	-3	1.80		1.40	-3.78			
	V		0.5	-15	0.60		0.60	-2.70			
			0.5	-6	1.20		0.30	-1.08			
	for GF & FF			2	40.70		8.00	651.20			
				2	25.75		12.60	648.90			
				2	66.00		8.00	1056.00			
	deductions		-0.5	35	3.20		1.46	-81.76			
	2016-17 SR	**151.00**									
	AW 8 %	**12.08**									
	TOTAL	**163.08**					**TOTAL**	**2673.78**	**Sqm**	**163.08**	**436039.23**
15	Providing and fixing of windows made of pre-painted steel(base steelas per IS 513 of 0.58mm tick galavanized as per IS 277 with zinc of 120GSM) Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 micron thick and back coated with 5-7 microns thick alkyd backer.Section for outer frame should be of 72x55mm,center mullion should bo of 72x52mm,section of the fixed glass beading should bo of 12x12mm and section of the shutter should be of 48x25mm.Outerand 20mm provision for guard bars/grill fly mesh shutters secxtion should corner bracket.Centre mullion is to be fixed with million cap.Handles latch 2 nos of heavy duty stainless steelpvot hingers shall be provided and S S mesh for fly meash shutter(304 grade).Rubber gaskets are to be provided all around the glass the above frames should be fixed to 10mm square guard bars with 6''(152.4mm)patch complete Double shutter window with vertical mullion 3'0''x4'0''(914.4mmx1219.2mm)outer frame section of 72x52mm shutter frame section size of 48x25mm mullion section size of 72x50mm. (P 305, I No 36.36.1)										
	east side w			17	1.85		1.45	45.60			
	w1			1	1.70		1.05	1.79			
	v			1	1.55		1.00	1.55			
	north side w			32	1.85		1.45	85.84			
	GENTS TOILET GF v			4	1.20		0.60	2.88			
	v1			3	0.60		0.60	1.08			
	v2			1	0.75		0.60	0.45			
	w			1	1.80		1.50	2.70			
	FF v			1	1.20		0.60	0.72			
	v1			7	0.60		0.60	2.52			
	SF v			4	1.20		0.60	2.88			
	v1			3	0.60		0.60	1.08			
	v2			1	0.75		0.60	0.45			

	w			1	1.80		1.50	2.70			
	LADIES TOILET GF w			1	1.80		1.50	2.70			
	v			1	1.20		0.60	0.72			
	v1			7	0.60		0.60	2.52			
	FF w			1	1.80		1.50	2.70			
	v			2	1.20		0.60	1.44			
	v1			5	0.60		0.60	1.80			
	SF w			1	1.80		1.50	2.70			
	v			1	1.20		0.60	0.72			
	v1			7	0.60		0.60	2.52			
	2016-17 SR	**7272.00**									
	AW 8 %	**581.76**									
	TOTAL	**7853.76**					**TOTAL**	**170.06**	**Sqm**	**7853.76**	**1335590.79**
16	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches,stacking the excavated soil clear from edges of excavation with lead upto 50 m.after breaking of clods complete as per specification.For Hard Soil.(P-5,I NO 2.4)										
	west side			1	60.00	0.80	(0.80+2.50)/2	79.20			
	east side			1	30.00	0.75	(0.60+1.20)/2	20.25			
	for septic tank			1	3.50	3.50	3.00	36.75			
	2016-17 SR	**283.00**									
	AW 8 %	**22.64**									
	TOTAL	**305.64**					**TOTAL**	**136.20**	**Cum**	**305.64**	**41628.17**
17	Providing and constructing load bearing wall with Soild concrete blocks of size 400x200x200mm having blocks density not less than 1800kgs/m3 having a minimum average comprisive strength 0f 4.00 N/m2 conforming to I.S. 2185 0f 2005 and constructed with CM 1:4 as per IS 2572-2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machineries etc.,complete as per specifications (P-25,I NO 5.26.1)										
	for GF near library			1	6.70	3.55		23.79			
				1	1.70	3.55		6.04			
	deductions Door			-1	1.10	2.10		-2.31			
				-1	0.70	2.10		-1.47			
	2016-17 SR	**937.00**									
	AW 8 %	**196.77**									
	TOTAL	**1133.77**					**TOTAL**	**26.04**	**Sqm**	**1133.77**	**29523.37**
18	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Cement concrete road.(P-264,I NO 37.40)										
				1	25.00	0.75	0.15	2.81			
	2016-17 SR	**607.00**									
	AW 8 %	**48.56**									
	TOTAL	**655.56**					**TOTAL**	**2.81**	**Cum**	**655.56**	**1843.76**

19	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x600mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal , foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.(P-73,I NO 11.50.1)										
	west side			1	7.00			7.00			
	east side			1	6.00			6.00			
	2016-17 SR	**8954.00**									
	AW 8 %	**716.32**									
	TOTAL	**9670.32**				**TOTAL**		**13.00**	**Nos**	**9670.32**	**125714.16**
20	Providing and fixing unplasticised PVC pipes 10.00 kg/sqcm working pressure chemp plast / wavin or equivalent make with 200mm outer dia pipe fittings,clips making good the floor,including cost of all materials,labour charges, HOM of equipment and testing, complete as per specifications.(P-75,I NO 11.56.5)										
	2016-17 SR	**1838.00**		1	80.00			80.00			
	AW 8 %	**147.04**									
	TOTAL	**1985.04**				**TOTAL**		**80.00**	**m**	**1985.04**	**158803.20**
21	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. raindown water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour complete as per specifications (P-47 I NO 8.19)										
	for sanitary line			1	140.00			140.00			
	for rain water pipe line			1	215.00			215.00			
	2016-17 SR	**568.00**									
	AW 8 %	**45.44**									
	TOTAL	**613.44**				**TOTAL**		**355.00**	**m**	**613.44**	**217771.20**
22	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications.with 1200mm dia. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300.(P-253,I NO 34.7.8)										
	2016-17 SR	**6144.00**		2	3.00			6.00			
	AW 8 %	**491.52**									
	TOTAL	**6635.52**				**TOTAL**		**6.00**	**m**	**6635.52**	**39813.12**
23	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. raindown water pipes 90mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour complete as per specifications (P-47 I NO 8.18)										
	2016-17 SR	**428.00**		1	105.00			105.00			
	AW 8 %	**34.24**									
	TOTAL	**462.24**				**TOTAL**		**105.00**	**m**	**462.24**	**48535.20**
24	Providing & fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete.with 25mm nominal OD pipes (concealed work including cutting chases and good the walls etc.).(P-96 I NO 13.86.2)										
	2016-17 SR	**250.00**		1	205.00			205.00			
	AW 8 %	**20.00**									
	TOTAL	**270.00**				**TOTAL**		**205.00**	**m**	**270.00**	**55350.00**

	providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity).(P-94,I NO 13.78)										
	2016-17 SR	8467.00		1	2.00			2.00			
	AW 8 %	677.36									
	TOTAL	9144.36					TOTAL	2.00	Nos	9144.36	18288.72
26	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of two 7.5 litre P.V.C with automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P-78,I NO 12.8)										
	west side			1	9.00			9.00			
	east side			1	19.00			19.00			
	2016-17 SR	4126.00									
	AW 8 %	330.08									
	TOTAL	4456.08					TOTAL	28.00	Unit	4456.08	124770.24
27	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P-80,I NO 12.23)										
	west side			1	11.00			11.00			
	east side			1	11.00			11.00			
	2016-17 SR	3886.00									
	AW 8 %	310.88									
	TOTAL	4196.88					TOTAL	22.00	Unit	4196.88	92331.36
28	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P-77,I NO 12.5)										
	west side			1	13.00			13.00			
	east side			1	12.00			12.00			
	2016-17 SR	5130.00									
	AW 8 %	410.40									
	TOTAL	5540.40					TOTAL	25.00	Each	5540.40	138510.00
29	Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P-77,I NO 12.2)										
	2016-17 SR	4336.00		1	3.00			3.00			
	AW 8 %	346.88									
	TOTAL	4682.88					TOTAL	3.00	Pan	4682.88	14048.64
30	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(P-91,I NO 13.24)										
	2016-17 SR	243.00		1	50.00			50.00			
	AW 8 %	19.44									
	TOTAL	262.44					TOTAL	50.00	Each	262.44	13122.00

31	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.(P-88,I NO 12.111)										
	2016-17 SR	160.00		1	40.00			40.00			
	AW 8 %	12.80									
	TOTAL	172.80					TOTAL	40.00	Each	172.80	6912.00
32	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(P-91,I NO 13.27)										
	2016-17 SR	160.00		1	30.00			30.00			
	AW 8 %	12.80									
	TOTAL	172.80					TOTAL	30.00	Each	172.80	5184.00
33	Providing and fixing unplasticised PVC connection pipe with brass union 20mm nominal bore 450mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(P-92,I NO 13.49)										
	2016-17 SR	305.00		1	35.00			35.00			
	AW 8 %	24.40									
	TOTAL	329.40					TOTAL	35.00	Set	329.40	11529.00
34	Providing and fixing in position collapsible steel shutters with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications. size of gate 2.4mx1.4m Specification (P-31,I NO 7.1)										
				3	2.40	2.21		15.91			
	2016-17 SR	4033.00		3	3.05	2.40		21.96			
	AW 8 %	322.64									
	TOTAL	4355.64					TOTAL	37.87	Sqm	4355.64	164956.80
35	Providing and fixing in position Powder coated aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm, with 1.2mm thick, bottom section weight 0.695kg/m, sides and top sections 1.3mm, thick weight 0.659 kg/m, and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg/m, shutter outer side 40mmx18mm, 1.25mm, thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc., and providing and fixing 5.5mm, thick plain glass for shutters fitted with rubber beading aluminum sections anodised 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No.(P-35,I NO 7.14.2)										
	2016-17 SR	4731.00		1	2.70	3.15		8.51			
	AW 8 %	378.48									
	TOTAL	5109.48					TOTAL	8.51	Sqm	5109.48	43456.13
36	Coneying the excavated debries and over burden earth etc to a lead 15 kms distances by using private vehicles this including the cost of loading and inloading charges etc										
	Qty Vide Item 1							136.20			
	Over Barden earth							480.00			
							TOTAL	616.20	Sqm	116.00	71479.20
37	Providing wall bores in size stone masonry upto 45 cm thick .(P-264,I NO 37.36.1)										
	2016-17 SR	187.00		1	25.00			25.00			
	AW 8 %	14.96									
	TOTAL	201.96					TOTAL	25.00	Each	201.96	5049.00

38	Providing and fixing M.S. Hand raillings for Balcony/ staircase etc., with 50mm dia.M.S.hollow pipe of 14 gauge welded to 20mmx20mm M.S Square rod placed vertically,spaced at 100mm at regular intervels of 600mm.These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface.All the joints and sections hould be cut to length,welded and grinded wherever necessary etc., complete. The work including cost of all materails,labour charges for all items of work ,hire charges for welding,cutting and grinding equipment and electricity charges .etc., complete as per specification and drawing.(P-42,I NO 7.35)									
	2016-17 SR	2646.00		1	98.00	1.20		117.60			
	AW 8 %	211.68									
	TOTAL	2857.68					TOTAL	117.60	Sqm	2857.68	336063.17
39	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications..(P-32,I NO 7.9)									
				4	1.30	2.75		14.30			
				42	3.40	1.50		214.20			
				1	2.60	1.50		3.90			
	2016-17 SR	78.00						232.40			
	AW 8 %	6.24			232.40x 21.00 kgs/sqm			4880.40			
	TOTAL	84.24					TOTAL	4880.40	Kgs	84.24	411124.90
40	Providing and Supplying Black Boards.										
				1	10.00			10.00			
							TOTAL	10.00	Nos	12600.00	126000.00
41	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary									
	19/20mm dia 2mm thick. (P.N0.2 ,I.No. 1.2.1)							960	Mtr	43.00	41280.00
	25mm dia 2mm thick. (P.N0.2 ,I.No. 1.2.2)							745	Mtr	57.00	42465.00
	32mm dia 2.5mm thick .(P.N0.2 ,I.No. 1.2.3)							80	Mtr	90.00	7200.00
42	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall(P.NO 3,1.7.1)										
								385.00	Mtr	21.00	8085.00
43	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required. 25mm(P.N0 3,1.8.2)										
	25mm(P.N0 3,1.8.2)							10.00	Mtr	26.00	260.00
	32mm(P.N0 3,1.8.3)							10.00	Mtr	35.00	350.00
44	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated										
	25mm(P.N0 3,1.9.2)							100.00	Mtr	30.00	3000.00
	Supplying And Fixing Metal Fan Box with Round Hook.(P.N0 3,1.12)							49.00	Nos	92.00	4508.00
45	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet GROUP A										
	Short point upto 3Mtr from tapping point to out let via switch (P No 5 ; I No 2.1.1)							83.00	Pts	174.00	14442.00
	Medium point above 3M. upto 6M from tapping point to out let via switch (P No 5 ; I No 2.1.2)							81.00	Pts	245.00	19845.00
	Long point above 6Mtr. upto 10M from tapping point to out let via switch (P No 5 ; I No 2.1.3)							191.00	Pts	363.00	69333.00

	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches (P No 6 ; I No 2.1.4)						10.00	Pts	482.00	4820.00
46	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP - A									
	1.5 sqmm (P.No. 6, I.No.2.5.2)						524.00	Mtr	18.60	9746.40
	2.5 sqmm (P.No. 6, I.No.2.5.3)						1878.00	Mtr	29.20	54837.60
	4 sqmm (P.No. 6, I.No.2.5.4)						950.00	Mtr	42.10	39995.00
	6 sqmm (P.No. 6, I.No.2.5.5)						240.00	Mtr	63.80	15312.00
	10 sqmm (P.No. 6, I.No.2.5.6)						820.00	Mtr	108.00	88560.00
47	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall									
	1-3Way(P.NO 15,3.5.1)						2.00	Each	91.00	182.00
	4-5Way(P.NO 15,3.5.2)						2.00	Each	98.00	196.00
	8Way(P.NO 15,3.5.4)						22.00	Each	140.00	3080.00
	10-12Way(P.NO 16,3.5.5)						7.00	Each	159.00	1113.00
	16Way(P.NO 16,3.5.6)						23.00	Each	172.00	3956.00
48	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.									
	1 to 3 Module(P.NO 16,3.6.1)						2.00	Each	109.00	218.00
	4 Module(P.NO 16,3.6.2)						2.00	Each	122.00	244.00
	8 Module(P.NO 16,3.6.4)						22.00	Each	200.00	4400.00
	10 Module(P.NO 16,3.6.6)						7.00	Each	227.00	1589.00
	12 Module(P.NO 16,3.6.6)						23.00	Each	267.00	6141.00
49	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A									
	6Amps one way.(P.NO 16,3.7.A 1)						58.00	Each	63.00	3654.00
	6Amps Two way.(P.NO 16,3.7.A 2)						20.00	Each	87.00	1740.00
	6Amps Three way.(P.NO 16,3.7.A 3)						58.00	Each	95.00	5510.00
	Stepped Fan Regulator.(P.NO 16,3.7.A 4)						49.00	Each	286.00	14014.00
50	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab.(P.NO 17,3.12)									
							1250.00	Nos	6.80	8500.00
51	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic.									
	1x4'-28 Watts (P.NO 20,4.7.1)						165.00	Each	990.00	163350.00
52	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring. 5 years Warranty against any manufacturing defect working under standard electrical condition P.NO 25.4.31)									
							73.00	Nos	1868.00	136364.00

53	Flood Light. Supplying of LED Floodlight with .....W System Power consumption LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.				
	LED Streetlight 65watts(P.NO 27,4.35.3)	10.00	Nos	18720.00	187200.00
54	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)Four pole . 125-160Amps 25kA. Group'A'(P.No. 46, I.No. 6.13.B)				
	100Amps 25kA. (P.No. 46, I.No. 6.13.B.6)	2.00	Each	5809.00	11618.00
	125-160Amps 25kA.(P.No. 46, I.No. 6.13.B.7)	1.00	Each	7372.00	7372.00
	Supplying and fixing of Shunt trip suitable for MCCB.CBCT.(P.No. 46, I.No. 6.14)	3.00	Nos	1443.94	4331.82
55	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898				
	5-32 Amps SP. (P.No. 47, I.No. 6.16.1)	51.00	Each	418.00	21318.00
	40-63 Amps TPN. (P.No. 47, I.No. 6.16.6)	8.00	Each	1936.00	15488.00
56	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure. II - Double Door 12 way SP & N (P.No. 47, I.No. 6.17.II.6)	6.00	Each	1622.00	9732.00
57	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door. 8Way TP & N .(P.No. 47, I.No. 6.17.III.9)	3.00	Each	3585.00	10755.00
58	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.				
	32-40 Amps 2 pole. (P.No. 47, I.No. 6.18.2)	6.00	Each	2623.00	15738.00
	63 Amps 4 pole. (P.No. 47, I.No. 6.18.4)	3.00	Each	3350.00	10050.00
59	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/ manual reset facility suitable to mount on DIN rail/ flush mounting on panel board.(P.No. 47, I.No. 6.19)	2.00	Each	7998.00	15996.00

	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.(P.No. 48, I.No. 6.2)	2.00	Each	390.00	780.00
61	Supplying, fixing and wiring 0 to 100amps Direct Reading AC analog type Ammeter. (P.No. 48, I.No. 6.23)	2.00	Each	452.00	904.00
62	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.(P.No. 48, I.No. 6.25)	2.00	Each	172.00	344.00
63	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.r.(P.No. 48, I.No. 6.26)	2.00	Each	140.00	280.00
64	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. (P.No. 48, I.No. 6.36)	6.00	Each	442.00	2652.00
65	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 100Amps 4x30x6mm Aluminum Strips(P.No. 49, I.No. 6.38.1)	4.00	Mtr	2135.00	8540.00
66	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40x40x6mm (P.No. 49, I.No. 6.39.1)	16.00	Mtr	263.00	4208.00
67	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 16SWG (P.No. 49, I.No. 6.40.2)	200000.00	Sqcm	0.33	66000.00
68	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12.2 mm dia (P.No 55; I.No 7.1)	4.00	Nos	2727.00	10908.00
69	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip . 5x3mm(P No 55; I No 7.3.1)	40.00	Mtr	77.00	3080.00
	25x3mm (P.No. 55, I.No. 7.3 A.1)	4.00	Each	784.00	3136.00
	600x600x3mm GI plate (P.No. 55, I.No. 7.3 A.5)				
70	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.				
	3.5 core 50 sqmm (P.No. 55&56, I.No. 7.4.8)	135.00	Mtr	140.40	18954.00
	4 core 16 sqmm(P.No. 55, I.No. 7.4.4)	100.00	Mtr	165.60	16560.00
	3.5 core 25 sqmm(P.No. 55, I.No. 7.4.5)	10.00	Mtr	204.00	2040.00
	3.5 core 35 sqmm(P.No. 56, I.No. 7.4.6)				
71	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.				
	6 sqmm to 16 sqmm (P.No. 61 I.No. 7.8.A.1)	135.00	Mtr	10.80	1458.00
	25 sqmm to 75 sqmm (P.No. 61 I.No. 7.8.A.2)	110.00	Mtr	16.20	1782.00

72	Digging of trench of 0.6m deep * 0.50mtr wide refiling the trench to the required ground level & consolidating etc., complete. (As per Civil SR KSRB I-2, P.7)				
	In soil (Ordinary) (P.No. 62, I.No. 7.9.1)	130.00	Mtr	78.00	10140.00
	C.C cutting (P.No. 62, I.No. 7.9.5)	15.00	Mtr	212.00	3180.00
73	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable. (P.No. 62, I.No. 7.1)				
		130.00	Mtr	103.00	13390.00
74	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)				
	25mm dia (P.No. 62 I.No. 7.14.2)	6.00	Each	86.00	516.00
	32mm dia (P.No. 62 I.No. 7.14.3)	2.00	Each	122.00	244.00
75	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.				
	50mm OD / 38mm ID (P.No. 63 I.No. 7.20.2)	130.00	Mtr	151.00	19630.00
76	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.				
	6sqmm (P.No. 64 I.No. 7.21.4)	9.00	Each	6.25	56.25
	10sqmm (P.No. 64 I.No. 7.21.5)	24.00	Each	7.65	183.60
	16sqmm Long Barrel(P.No. 64 I.No. 7.21.6)	4.00	Each	11.31	45.24
	25sqmm Long Barrel(P.No. 64 I.No. 7.21.7)	2.00	Each	20.59	41.18
	35sqmm Long Barrel(P.No. 64 I.No. 7.21.8)	2.00	Each	35.72	71.44
77	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG (P.No. 64 I.No. 7.22.A)				
		230.00	Mtr	19.50	4485.00
78	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 15" Sweep (450mm) (P.No. 78 I.No. 9.2.2)				
		12.00	Each	4394.00	52728.00
79	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Regular model. (P.No. 78 I.No. 9.3.1.1)				
		49.00	Each	2376.00	116424.00
80	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe .(P.No. 78 I.No. 9.2.2)				
		10.00	Each	893.00	8930.00
81	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.(P.No. 108 I.No. 17.5)				
		7.00	Each	176.00	1232.00
82	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders (P.No. 108 I.No. 17.5)				
		238.00	Each	98.00	23324.00
83	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. (P.No. 109 I.No. 17.8)				
		49.00	Each	139.00	6811.00

84	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. (P.No. 109 I.No. 17.11)									
								12.00	Each	680.00	8160.00
85	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire.(P.No. 109 I.No. 17.12)									
								119.00	Each	412.00	49028.00
										TOTAL	7500000.00
Rupees Seventy Five Lakhs only											

Certificate

1) The work spot has been inspected by me and found that the work is found to be necessary and economical
2) The rates are based on SR of PWD 2016-17

Asst Engineer

Asst. Exe. Engineer
B.B.M.P. Bangaluru.
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
B.B.M.P. Bangalore
Project Division
Yelahanka Zone
BBMP, Bangalore-92
21/5/18

Administrative Approval

Accorded For Rs. 75.00 lakhs
Head of A/C P-3250
CER NO : 01/18-19 Dt: 5/6/2018

E.E. (Project) 5/6

Technical Sanction

Accorded For Rs. 75.00 lakhs
Head of A/C P-3250
CER NO : TS/04/18-19 Dt: 05.06.18

TA CE (YNK)